QUICK CONNECTION · IN ENGLISH

KIT

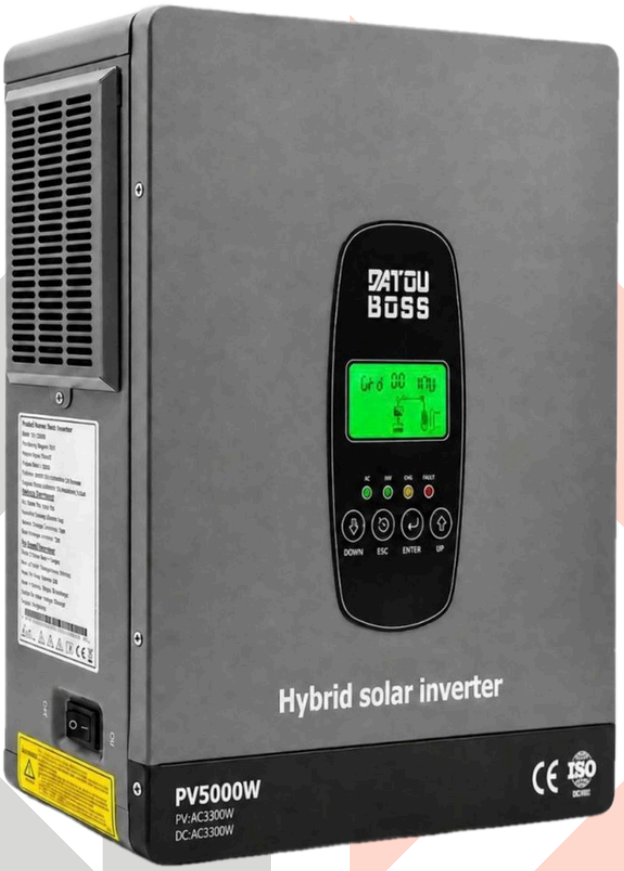
DATOU BOSS 3.3kW + battery 25.6 V ~2.5 kWh, no BMS link



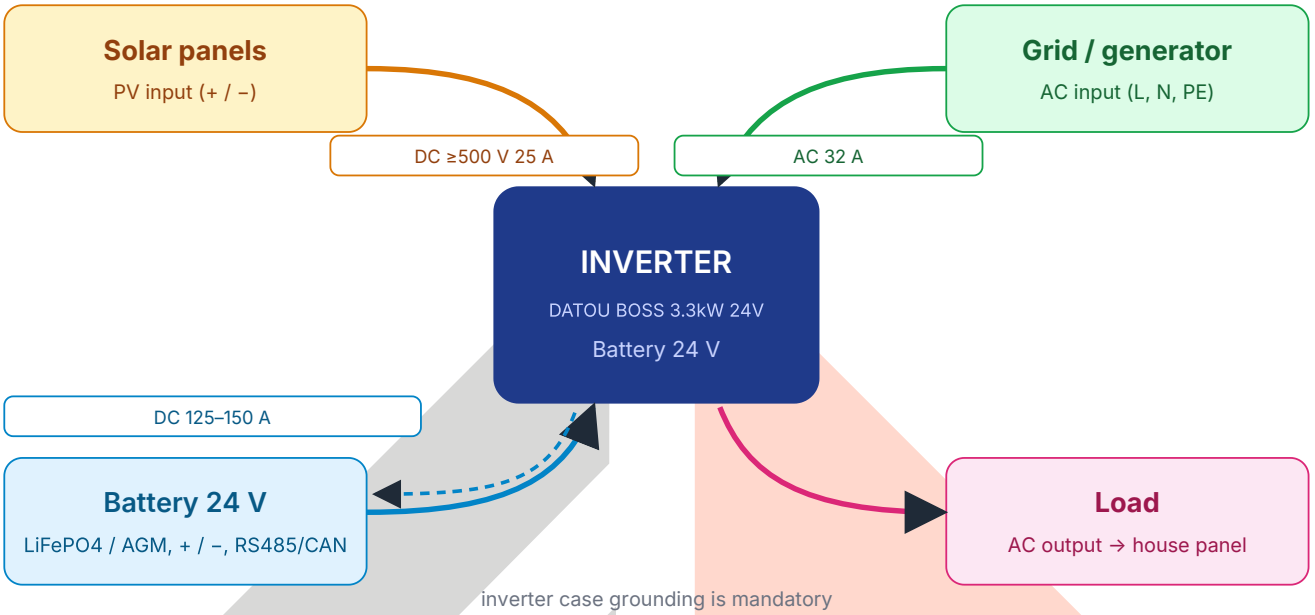
Seller's short guide based on the DT-2433M manual. The full inverter manual is a separate file on the product page.

1 Compatible batteries

- Any LiFePO4 25.6 V (8S) 100 Ah ≈ 2.5 kWh battery without a communication port to the inverter: EASUN, EKPAOWE, ECONOMI, GSIKE 25.6 V and similar.
- The inverter controls charging by voltage only, so the display shows no charge percentage: go by the voltage (table below).
- A 12 V battery will not work here: you need 24 V (or two 12.8 V in series).

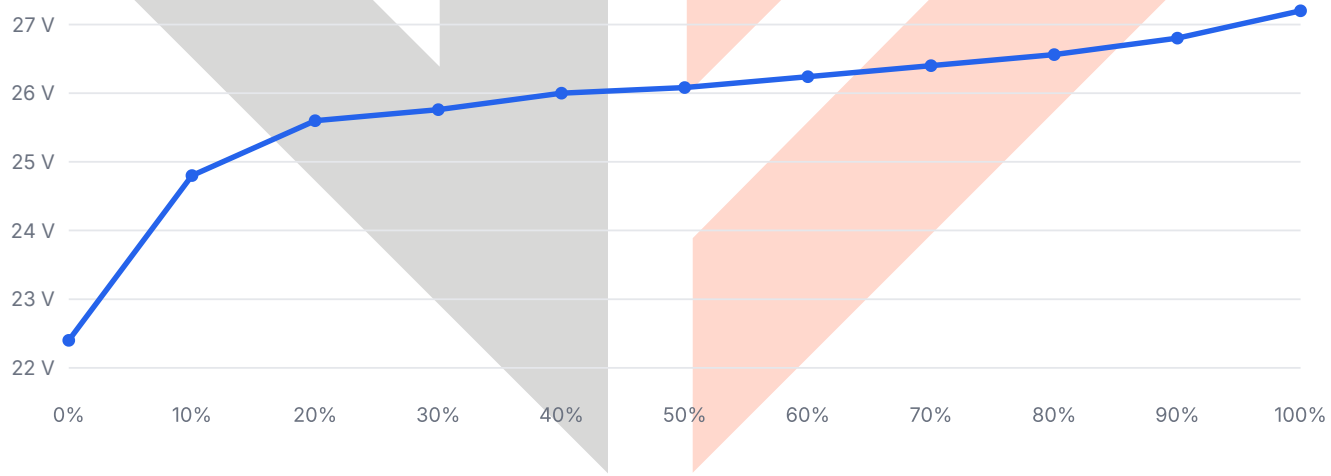


2 Wiring diagram



1. Battery plus → DC breaker 125–150 A → BAT+, minus → BAT−.
2. No communication cable needed; the RS485-2 port stays free.
3. Load power is limited by the battery BMS current: with a 100 A BMS, up to ≈2.4 kW continuous, even though the inverter is 3.3 kW.

9 Charge by voltage (at rest)

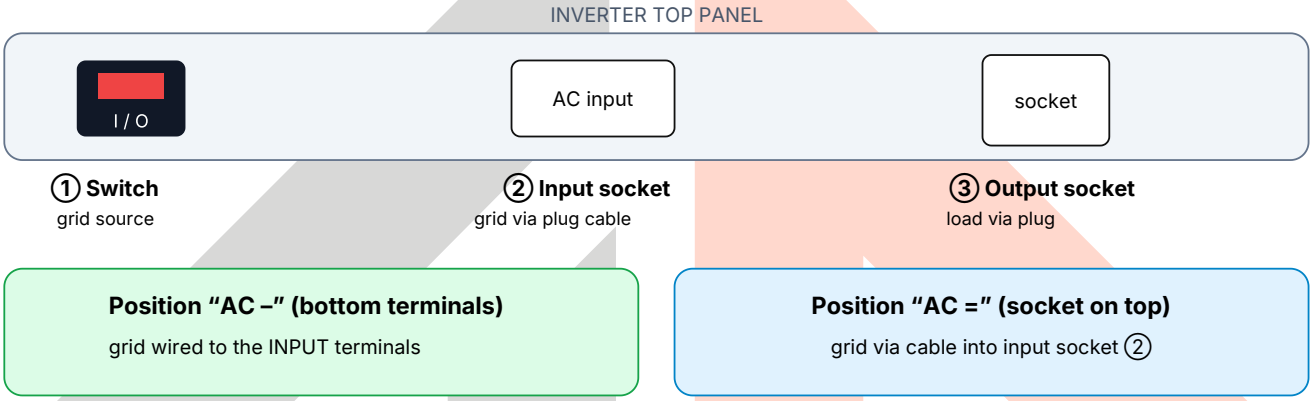


Charge	Battery voltage (at rest)	Voltage per cell
100%	27.2 V	3.40 V
90%	26.8 V	3.35 V
80%	26.6 V	3.32 V
70%	26.4 V	3.30 V
60%	26.2 V	3.28 V

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Charge	Battery voltage (at rest)	Voltage per cell
50%	26.1 V	3.26 V
40%	26.0 V	3.25 V
30%	25.8 V	3.22 V
20%	25.6 V	3.20 V
10%	24.8 V	3.10 V
0%	22.4 V	2.80 V

3 Grid source switch on top



How the grid is connected	Switch position ①	Note
Wires to the INPUT terminals at the bottom (fixed installation)	«AC –»	Top input socket not used
Plug cable into top input socket ② (portable setup)	«AC =»	Do not connect the bottom INPUT terminals
No grid at all (solar + battery only)	any	Also set A14 = UPS, A0 = PbG

⚠ Switch ① ONLY selects where the inverter gets the grid from. It does not turn the inverter on: use the side switch (ON/OFF) for that.

⚠ Switch only with the grid off (breaker off or plug pulled). Otherwise there may be a current surge.

⚠ Never feed the grid to both the terminal block and the input socket at the same time.

⚠ Output socket ③ on top and the OUTPUT terminals at the bottom are the same backed-up output. Total load: up to 3300 W.

⚠ If the grid is present but the inverter does not “see” it (no AC on the display), the switch is most likely in the wrong position.

4 Switching on and off

Switching on

1. Check the polarity of the battery and panels, and the grounding.
2. Switch on the battery (button/breaker), then the DC breaker between battery and inverter.

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3. Set switch ① to the correct position (see above).
4. Turn on the ON/OFF switch on the side of the inverter: the display lights up and the output voltage appears a few seconds later.
5. Enter the settings from the table.
6. Switch on the grid (breaker or plug), then the PV breaker.
7. Connect loads gradually.

Switching off

1. Switch off the loads.
2. Set the ON/OFF switch to OFF (the output goes off).
3. Switch off the PV and grid breakers (or unplug).
4. Switch off the battery DC breaker, then the battery itself.
5. Wait 5 minutes before working on the terminals.

5 Settings (hold ENTER 2 s → UP/DOWN → ENTER)

Set A17 first, then the rest. Change the factory defaults to these values:

Item	Setting	Set to	Explanation
A17	Battery type	Pb	**No BMS link: the inverter works by voltage**
A1	Charge voltage	28.4 V	**For LiFePO4 8S; max. 28.8 V**
A2	Float charge	27.2 V	
A6	Grid → battery	26.4 V	**Returns to battery after recharging**
A5	Return after cut-off	26.0 V	
A7	Battery → grid	24.5 V	**Switch to grid**
A4	Low-voltage warning	24.0 V	
A3	Low-voltage cut-off	23.5 V	**Above the BMS cut-off (≈21.6 V): no battery sleep**
A0	Output priority	PbG	
A10	Charging priority	SNU	
A12	Grid charging current	30 A	**For 100 Ah: no more than 50 A**
A13	Max. charge current	50 A	**0.5C for 100 Ah: check the battery datasheet**
A14	Grid input range	UPS	
A15	Mode	dIS	
A24	Restart after discharge	bRE	
A8 / A9	Frequency / voltage	50 Hz / 230 V	

Voltages: A1 (28.4) > A2 (27.2) > A6 (26.4) > A5 (26.0) > A7 (24.5) ≥ A4 (24.0) > A3 (23.5). Otherwise, error 42.

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6 Factory reset (A30)

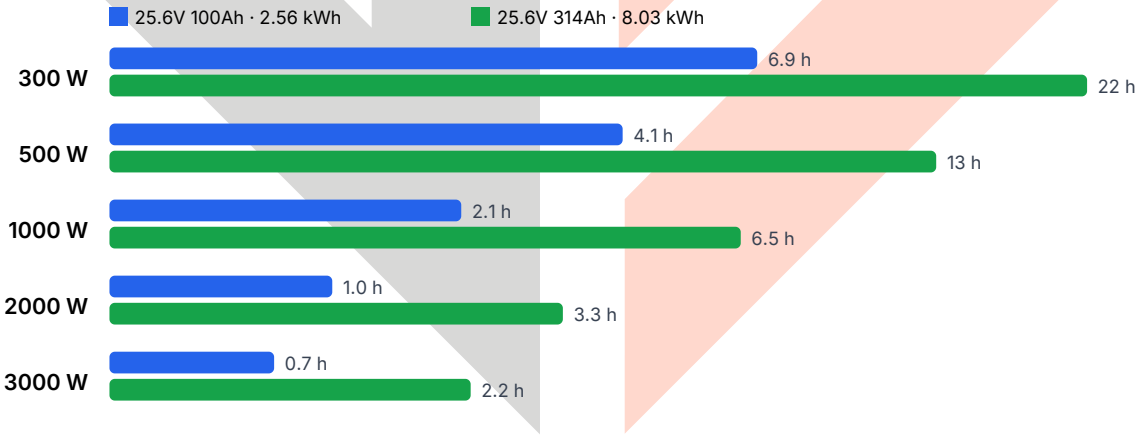
If something is set wrong, error 42 appears or the inverter behaves strangely: reset it to factory settings and set it up again using the table in this guide.

1. The inverter must be running on the battery (battery mode).
2. Hold ENTER for 2 s to enter the menu.
3. Use UP/DOWN to go to A30.
4. Press ENTER briefly, select RES with UP (the display shows “tES”), press ENTER briefly.
5. Hold ENTER > 2 s to exit. All settings return to factory values (A17 = Pb, A0 = PbG, etc.).
6. Go through the settings table again, starting with A17.

7 Common errors

Code	Cause	What to do
42	voltage/SOC order broken	fix per the rule or reset with A30
50 / 51	low battery voltage	charge it, check A3/A4
63	no communication with BMS	cable in RS485-2, protocol A17
54	overload	reduce the load
55–57	overheating	clean the filter, check the fan

8 How long it will run



Approximate, without solar: 90% usable capacity × 90% efficiency.

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